

Title (en)
NOVEL COMPOUND FOR TREATMENT OF TUMOR

Title (de)
NEUE VERBINDUNG ZUR TUMORTHERAPIE

Title (fr)
NOUVEAU COMPOSÉ DE TRAITEMENT DE TUMEUR

Publication
EP 1987838 A4 20100224 (EN)

Application
EP 07702135 A 20070119

Priority
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Abstract (en)
[origin: EP1987838A1] The present invention is directed to an anti-tumor protein coupled with a specific modifying reagent at a specific site to overcome the inherent deficiencies of the anti-tumor protein, such as a high antigenicity and a short half-time, and to overcome the deficiencies resulted from a non-specifically modifying method, such as inconsistent modified sites, inhomogeneous constitutes, significantly decreased activity and hard-to-control quality of the products, and to ultimately make it available for the treatment of tumors and production of anti-tumor medicaments.

IPC 8 full level
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Citation (search report)
• [A] WO 0183774 A2 20011108 - PHOENIX PHARMACOLOGICS INC [US], et al
• [A] WO 2004001048 A1 20031231 - BIO CANCER TREATMENT INT LTD [CN], et al
• [A] KOCHENDOERFER G: "CHEMICAL AND BIOLOGICAL PROPERTIES OF POLYMER-MODIFIED PROTEINS", EXPERT OPINION ON BIOLOGICAL THERAPY, vol. 3, no. 8, 2003, pages 1253 - 1261, XP008036528
• [A] HOLTSBERG F W ET AL: "Poly(ethylene glycol) (PEG) conjugated arginine deiminase: effects of PEG formulations on its pharmacological properties", JOURNAL OF CONTROLLED RELEASE, vol. 80, no. 1-3, 2002, pages 259 - 271, XP004348640
• [A] GAERTNER H F ET AL: "SITE-SPECIFIC ATTACHMENT OF FUNCTIONALIZED POLY(ETHYLENE GLYCOL) TOTHE AMINO TERMINUS OF PROTEINS", BIOCONJUGATE CHEMISTRY, vol. 7, no. 1, 1996, pages 38 - 44, XP002944821
• [A] EDWARDS C K ET AL: "Design of PEGylated Soluble Tumor Necrosis Factor Receptor Type I (PEG sTNF-RI) for Chronic Inflammatory Diseases", ADVANCED DRUG DELIVERY REVIEWS, vol. 55, 2003, pages 1315 - 1336, XP003008526
• [A] WAN ET AL: "An enzyme-linked immunosorbent assay for host cell protein contaminants in recombinant PEGylated staphylokinase mutant SY161", JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol. 28, 2002, pages 953 - 963, XP002987234
• [A] DATABASE BIOSIS [online] BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 2002, LEE H ET AL: "Preparation and characterization of mono-PEGylated epidermal growth factor: Evaluation of in vitro biologic activity", XP002562904, Database accession no. PREV200200438985 & LEE H ET AL, PHARMACEUTICAL RESEARCH, vol. 19, no. 6, 2002, pages 845 - 851
• See references of WO 2007082482A1

Cited by
CN110124051A; EP2964761A4; US9803185B2; US11235037B2; US10463721B2; USRE48805E; US9333268B2; US9731028B2; US9789170B2; US10525142B2

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DOCDB simple family (application)
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